INSTRUCTION MANUAL

CARPLAY/ANDROID AUTO INTEGRATION FOR BMW NBT & NBT-EVO ID4 HEAD UNIT

Model No.	CI-CARPLAY-NBT-BM
MCU Ver.	120010
CP-SW Ver.	20190701-v1.10.15
Manual Ver.	1.1
Date	Jul. 25, 2019

CONTENT

WARNING

In order to protect the driving safety and avoid break the traffic law; please DO NOT operate the interface while driving.

The reversing surveillance function just is used in reversing assistance. Please check the entire surroundings while reversing.

All steps of installation should be done by the well-trained specialist.

During installation, the ignition key should be taken off and after all installation finished, connect power cable last.

Please DO NOT plug or pull the connected cables in the state of power-on, in order to avoid damaged monitor or accessory.

Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and shocks. Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.

Please DO NOT put the product in the damp environment or water, in order to avoid electric shock, damaged and fire accident caused by a short circuit.

Kindly check all components are in the box when receiving the product. If anything missing, inform to the supplier/manufacturer.

Start the engine before loading, check the interface whether have function displayed, key control whether correct, the vehicle interface whether having a scratch. Please give the feedback to the supplier/manufacturer if there have any questions.

Please note that put the disassembled automotive components in a good way on the installation process, avoid scratching the instrument panel, the leftovers of connecting cables need to handle and DO NOT leave it in the car. The connecting plug must be insulated in order to short circuit.

The cables should be connected in a good way, the vehicle installation space is a little small, so reduce space usage as far as possible. There should be a good plan about connect cables, avoid affecting the active component of connecting, such as control components of turning the steering wheel, throttle and brake pedal. There need to be fastened after connecting cables in case of a drop.

COMPATIBILITY

Make	Models	Years	Original system
BMW	1 series	2013-2017	NBT (high-cic) & NBT-EVO ID4 6.5/8.8/10.25 inch 4+2pin LVDS connector
	2 series		
	3 series		
	4 series		
	5 series		
	6 series		
	7 series		
	X1		
	X3		
	X4		
	X5		
	X6		
MINI	Cooper	2013-2015	

FEATURES

Integrated 2 in 1 module supports Apple CarPlay and Android Auto

Support wireless & wired Apple CarPlay, wired Android Auto, wireless & wired AirPlay mirroring

Support USB HD video and lossless music playback (APE, WAV, FLAC, MP3, WMA, etc.)

Offers 2 video in for front and rear view camera

Support PDC (Parking Distance Control) and FPG (Flexible Parking Guidelines)

Supply pure 12V power to the front/rear view camera

Display front view automatically after shifting from "R" gear, also support setting the duration

Adjustable left/right driving layout on CarPlay

VGA input for specific 360 panoramic system, offers a clearer picture

Operate by iDrive joystick and steering wheel buttons

Support OEM microphone

Support further software update

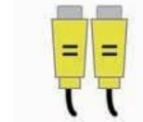| Wireless/ wired CarPlay	wired Android Auto	USB multimedia	FPG	PDC	F/R view camera	Software update

PACKAGE COMPONENTS

WiFi & BT Antenna

26 mm
101 mm
141 mm

Main unit

Quadlock power harness

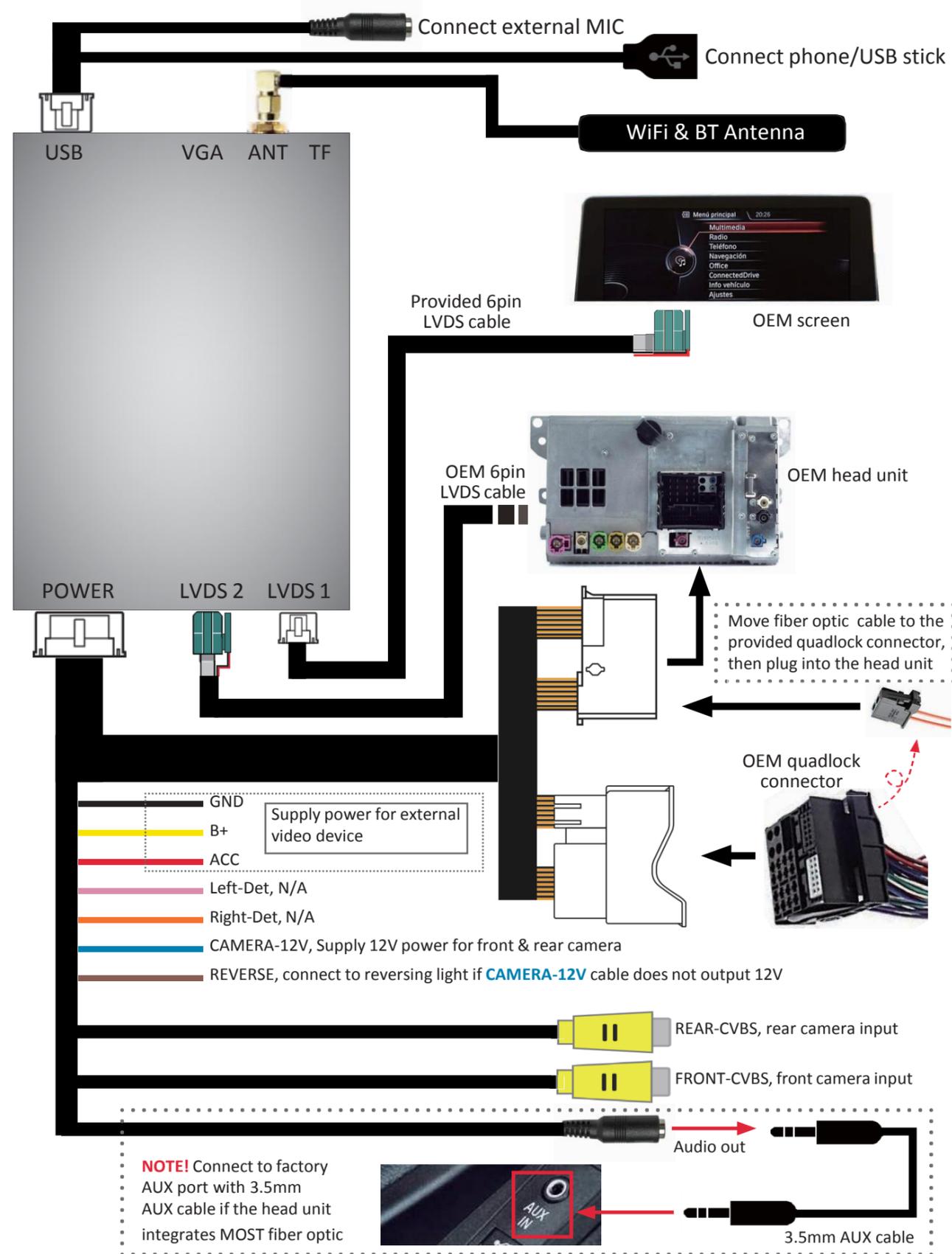LVDS cable

USB/MIC cable

Optional components:

External microphone

(Designed for car without factory microphone)

3.5mm AUX cable

(Connect to factory AUX port if the head unit integrates MOST fiber optic)
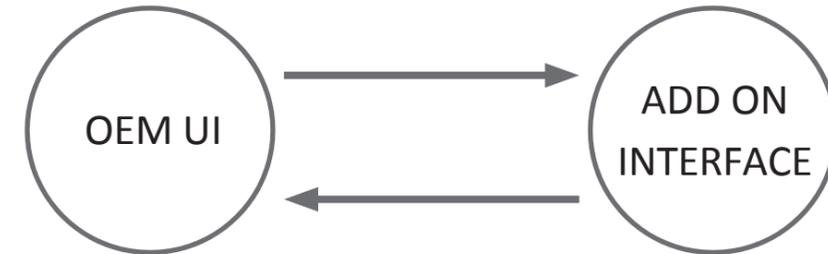
CONNECTION DIAGRAM

Connect external MIC

Connect phone/USB stick

WiFi & BT Antenna

USB   VGA   ANT   TF

Provided 6pin LVDS cable

OEM screen

OEM 6pin LVDS cable

OEM head unit

POWER   LVDS 2   LVDS 1

Move fiber optic cable to the provided quadlock connector, then plug into the head unit

OEM quadlock connector

GND
B+
ACC

Supply power for external video device

Left-Det, N/A
Right-Det, N/A
CAMERA-12V, Supply 12V power for front & rear camera
REVERSE, connect to reversing light if **CAMERA-12V** cable does not output 12V

REAR-CVBS, rear camera input

FRONT-CVBS, front camera input

Audio out

NOTE! Connect to factory AUX port with 3.5mm AUX cable if the head unit integrates MOST fiber optic

3.5mm AUX cable

DIP SETTING

OFF

ON

PIN	ON ↓	OFF ↑
1	Disable PDC, (full screen reversing camera)	Enable PDC (split reversing screen with PDC)
2	Disable 360 panoramic	Enable 360 panoramic
3	CVBS	VGA
4	If you use aftermarket camera and the image does not display, set this dip to **ON**	Default
5	Selection of OEM screen size	
6		
7	Original rear camera or none	Aftermarket rear camera
8	External microphone	Original microphone

5	6	Screen size
OFF	OFF	8.8 or 10.25 inch
ON	OFF	6.5 inch (default)
ON	ON	6.5 inch (alternative)
OFF	ON	Reserved

NOTE! Please disconnect and reconnect interface's power for effective after changing any DIP setting.

OPERATION INSTRUCTION

● **HOW TO SWITCH FROM ORIGINAL TO ADD ON INTERFACE**
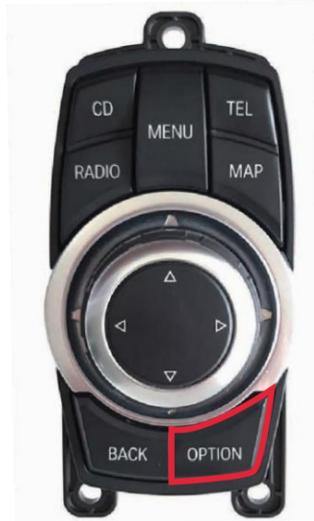

OEM UI → ADD ON INTERFACE

Press and hold "**MENU**" or "**BACK**" button on iDrive controller for 3S to switch menu. It will also switch to add on interface automatically after plugging a mobile phone or USB stick.

NOTE! Make sure source switch to "AUX" mode on original car stereo for audio transmission before using the integration.

● **SHORTCUTS**

Set audio source to AUX in the "**Multimedia**", then press and hold #8 to program it as an AUX input shortcut. Every time the #8 is pressed, it will switch to add on interface while also changing the audio source to AUX.
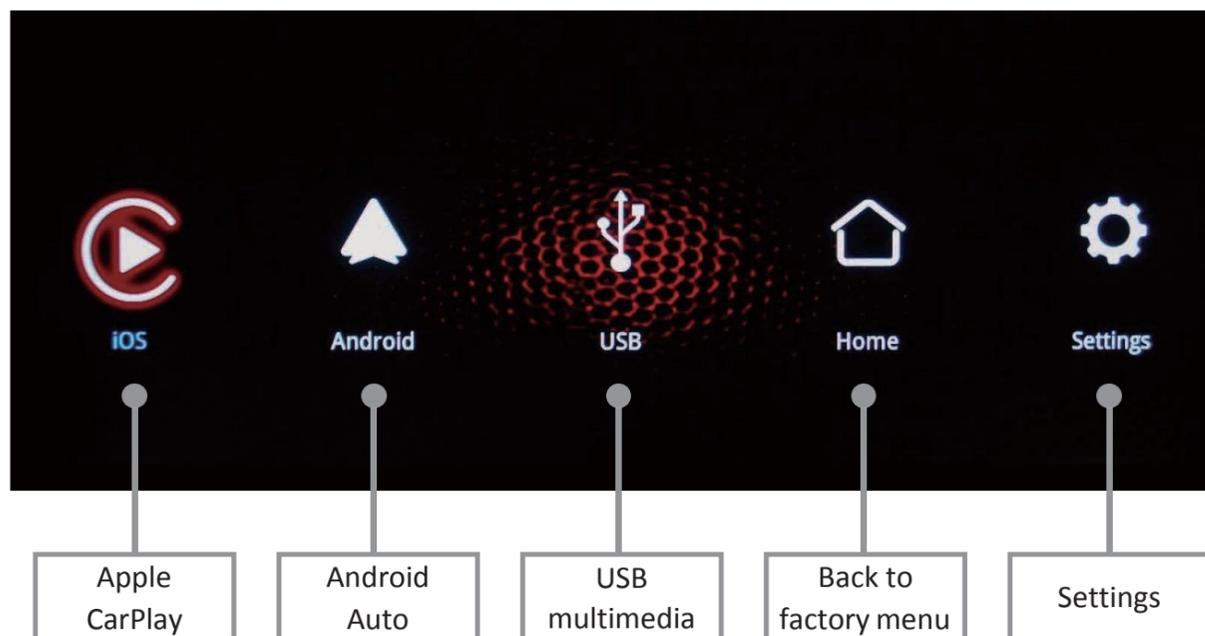
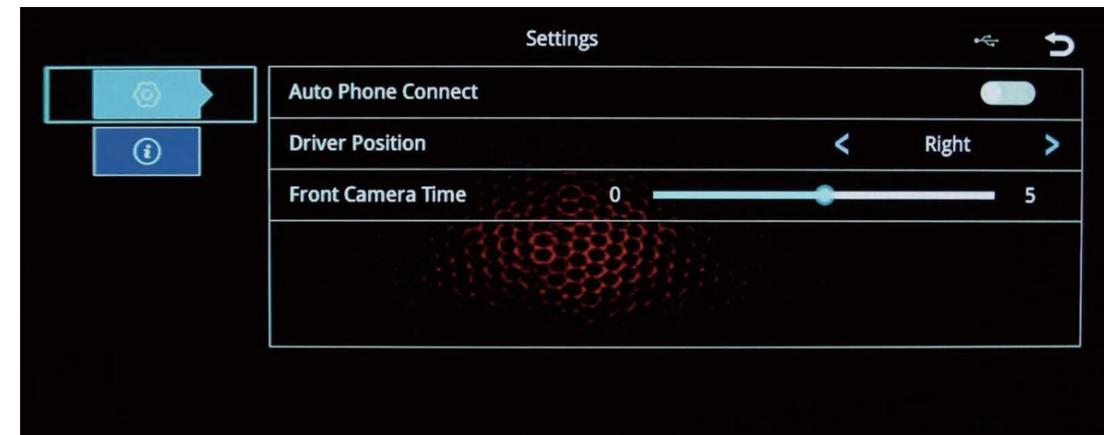- Press and hold "**OPTION**" for 3S to display front view camera

- Press and hold "**MODE**" on steering wheel for 10S will reboot the interface

● SETTINGS

- Auto Phone Connect **ON**: CarPlay or Android Auto will start automatically after connecting your iPhone or Android smartphone.

- Driver Position **Left/Right**: Left/right driving mode on CarPlay.

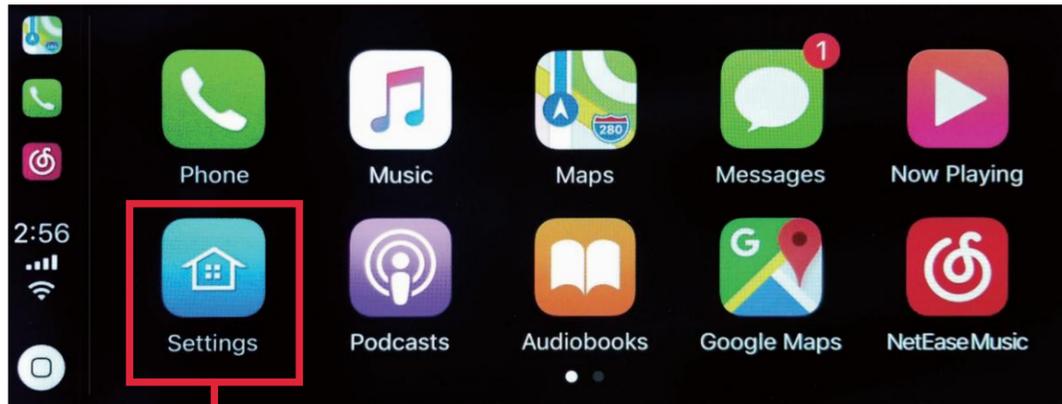- Front Camera Time: Automatic front view display time, 0 means disable front view, 10s max.

● ADD ON MODULE UI

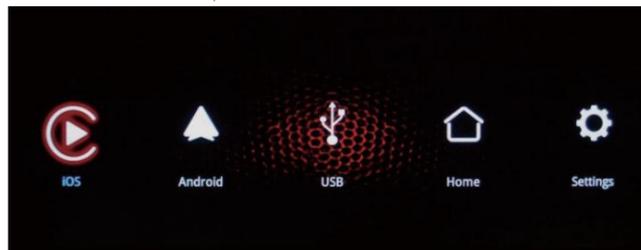| iOS	Android	USB	Home	Settings
Apple CarPlay	Android Auto	USB multimedia	Back to factory menu	Settings

MCU version

CP software version

● APPLE CARPLAY

NOTE! Please disconnect iPhone's bluetooth before using Apple CarPlay.
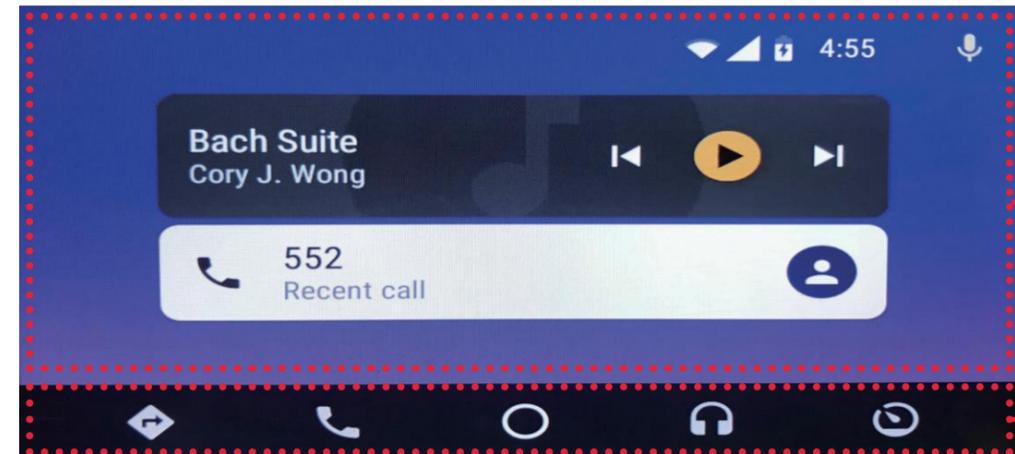

Back to add on main menu
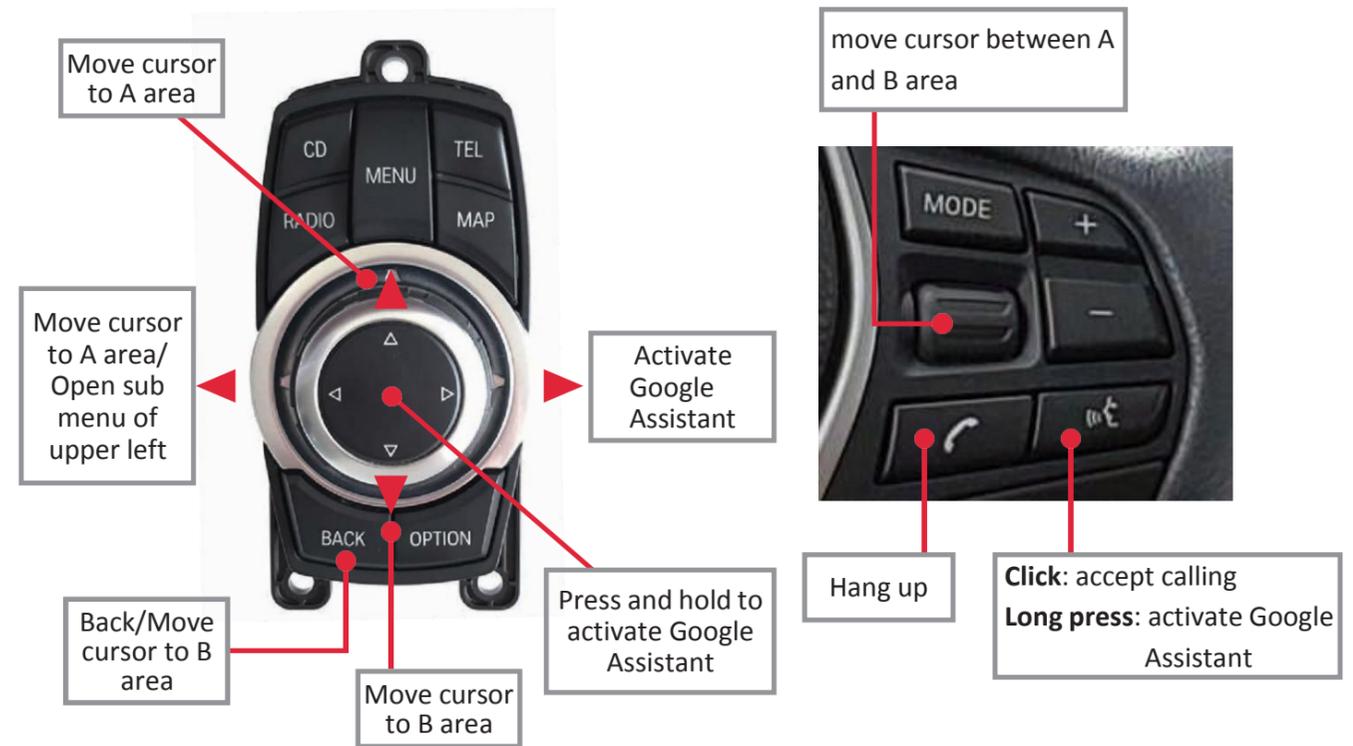

Press: enter
Scroll: move cursor

Previous track

Next track

Back

Press and hold to activate Siri

Hang up

Click: accept calling
Long press: activate Siri

● ANDROID AUTO

A area

B area

Move cursor to A area

move cursor between A and B area

Move cursor to A area/ Open sub menu of upper left

Activate Google Assistant

Back/Move cursor to B area

Move cursor to B area

Press and hold to activate Google Assistant

Hang up

Click: accept calling
Long press: activate Google Assistant

NOTE!
Make sure smartphone connect to original car stereo Bluetooth (tick **CALL AUDIO,** uncheck **MEDIA AUDIO**) for phone call audio delivering when using Android Auto.

www.car-interface.com